

Fig. 1a

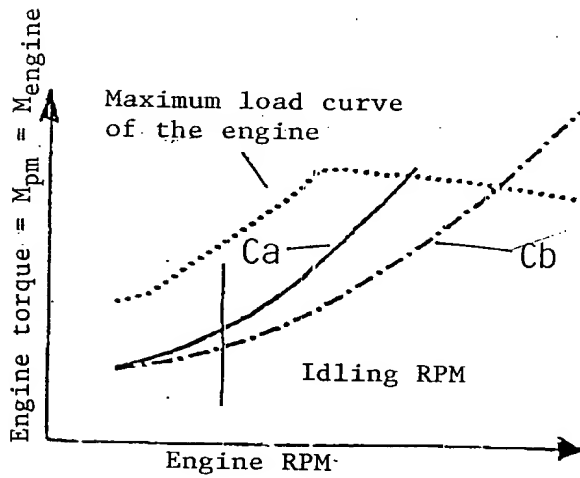
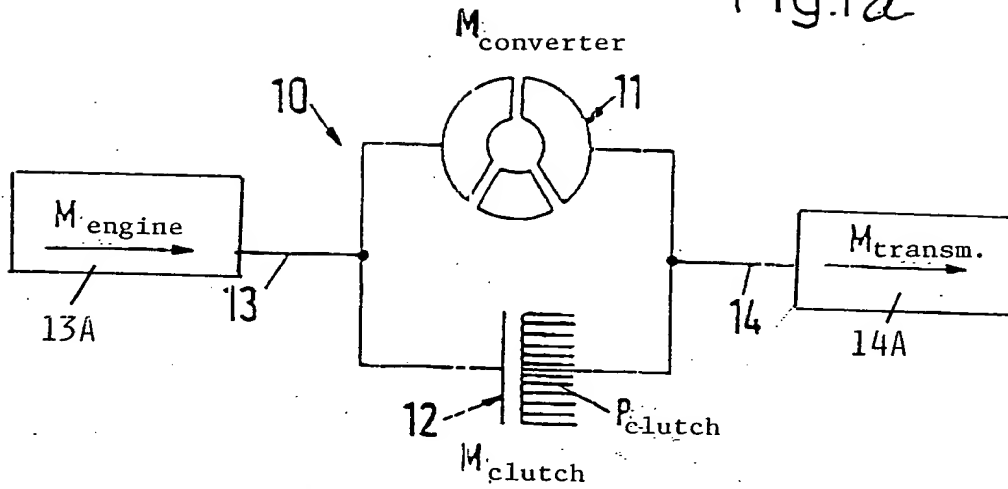


Fig. 1b

Losses when vehicle
at a standstill

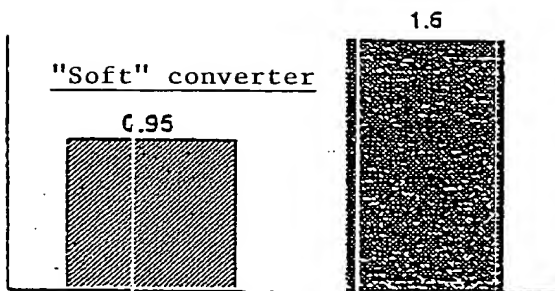


Fig. 1c

"Hard" converter

Losses in output

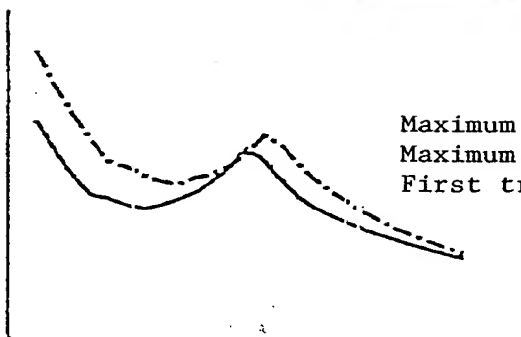


Fig. 1d

Maximum load
Maximum slope
First transmission drive ratio

Vehicle speed

--- "Soft" converter
— Standard converter

Pulling force

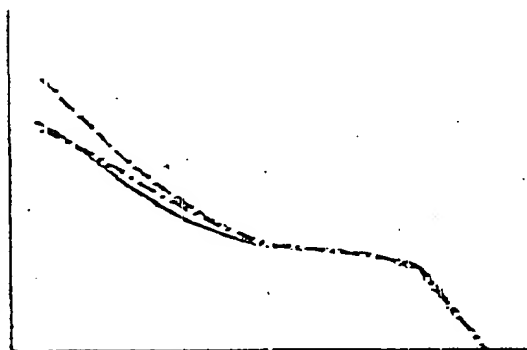
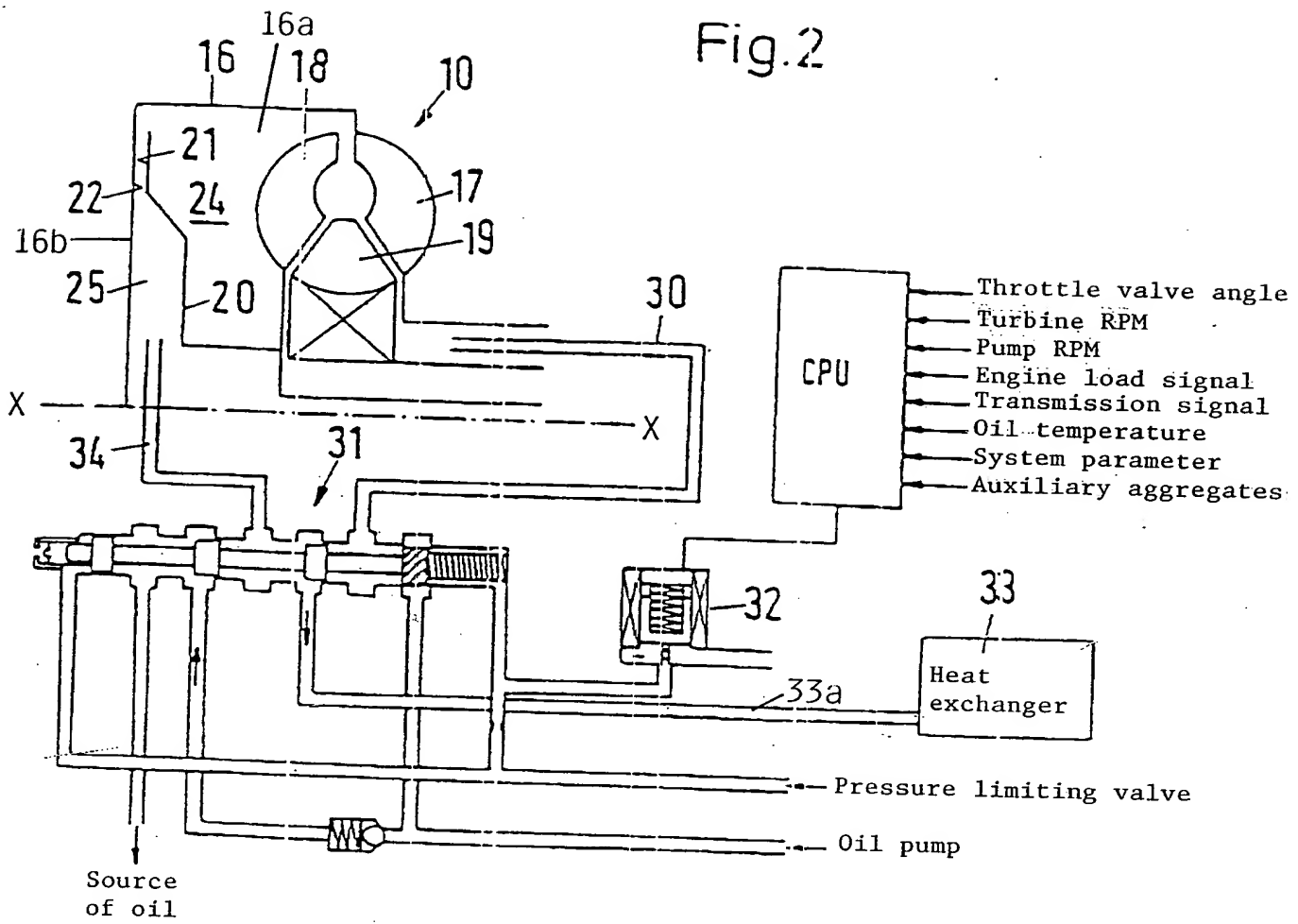


Fig. 1e

Vehicle speed

— Standard converter
--- "Soft" converter
-.- "Soft" converter with higher conversion

Fig.2



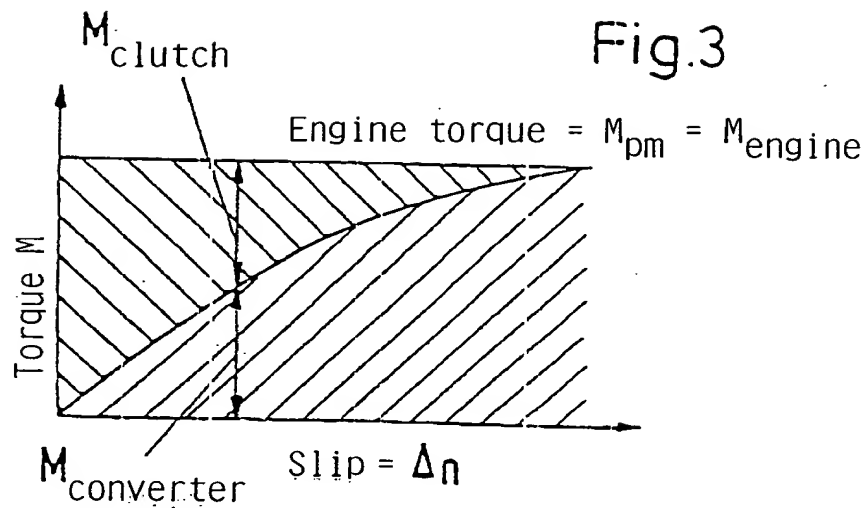
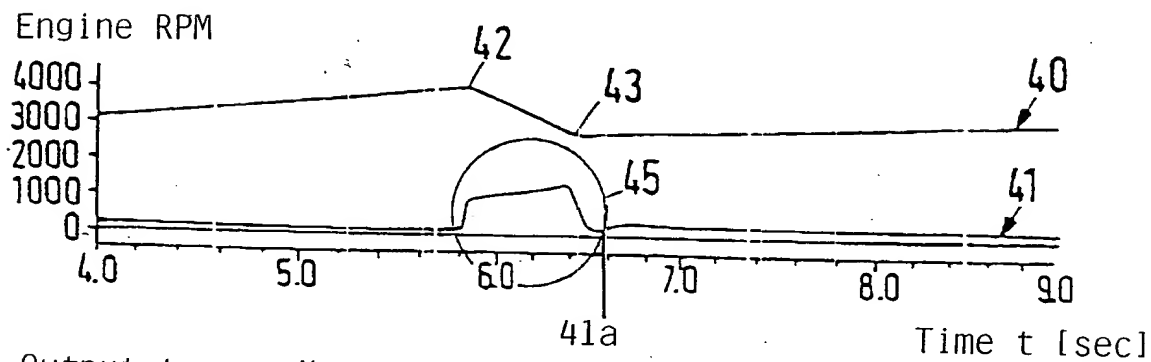


Fig.4



Output torque Nm

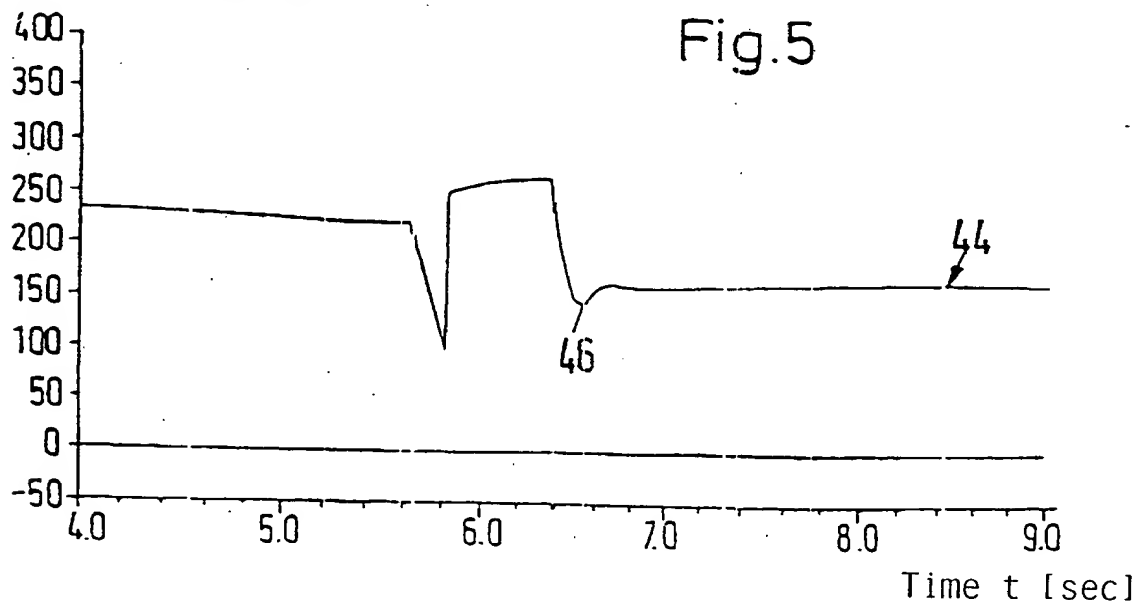


Fig.6

PRIOR ART

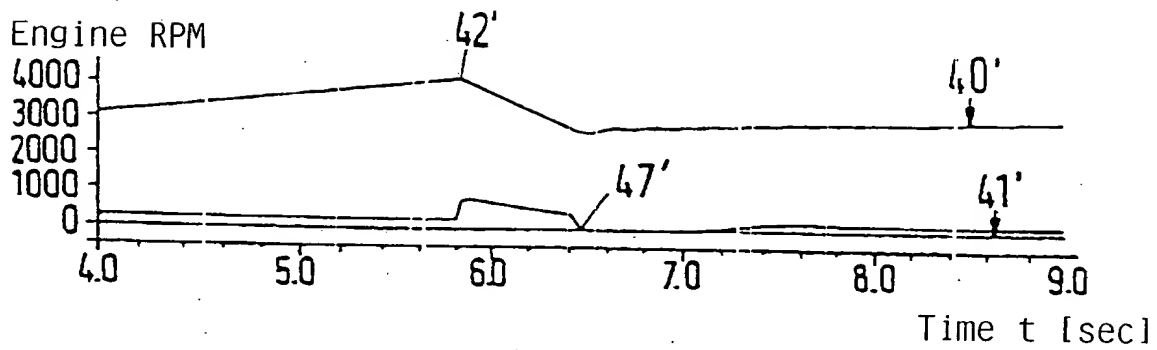
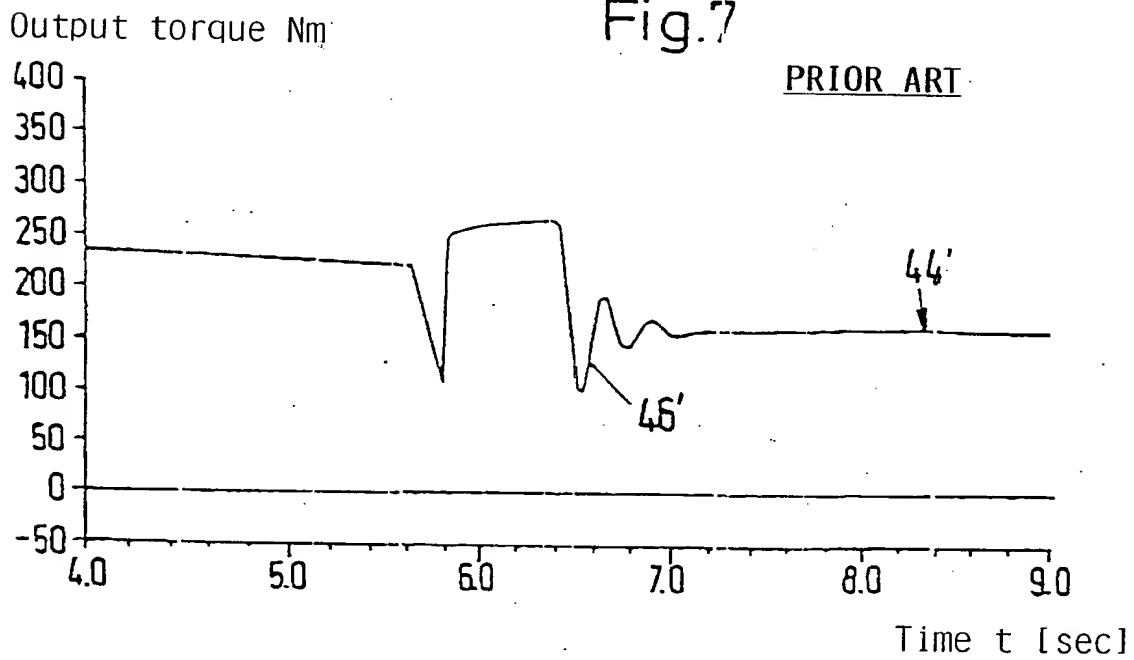


Fig.7

PRIOR ART



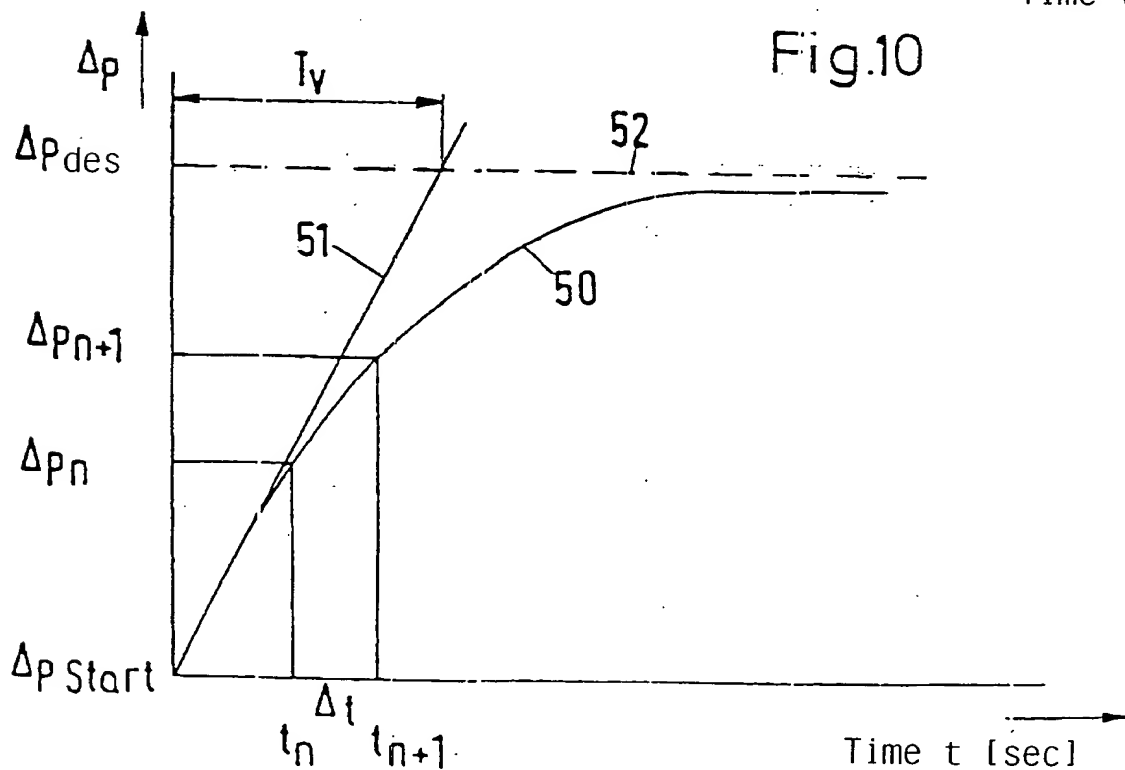
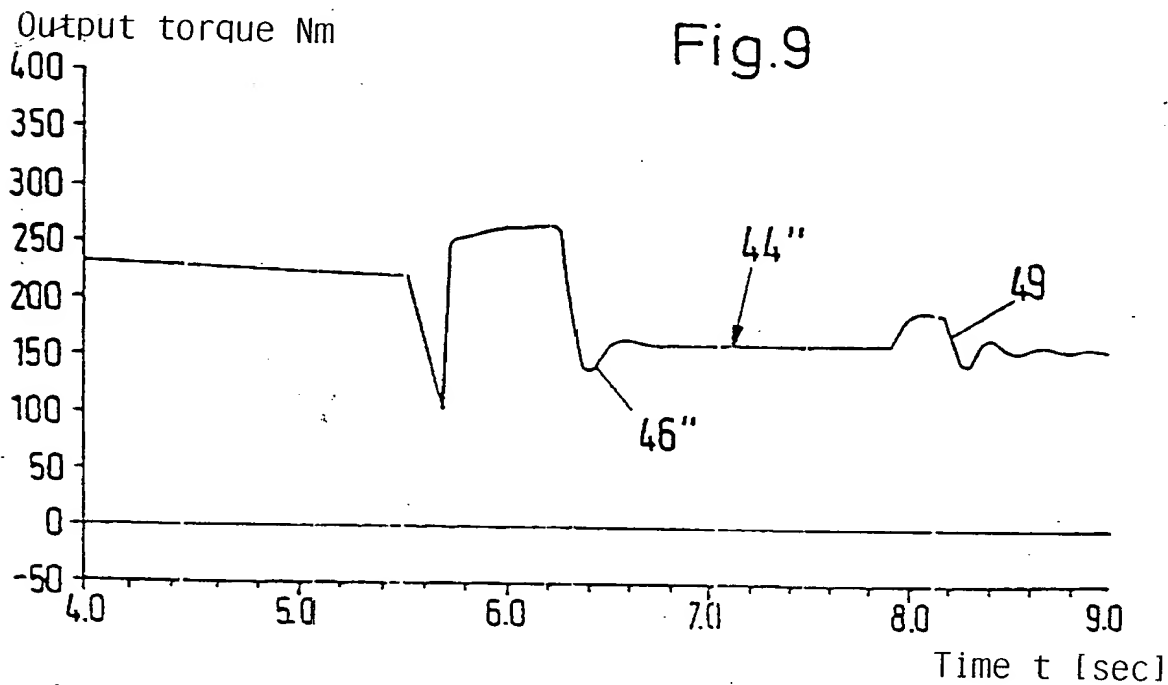
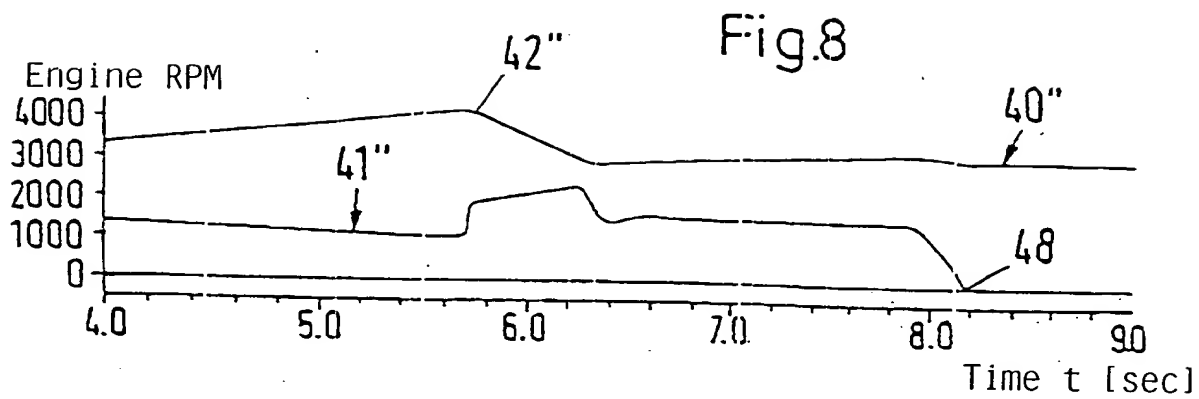


Fig. 11a

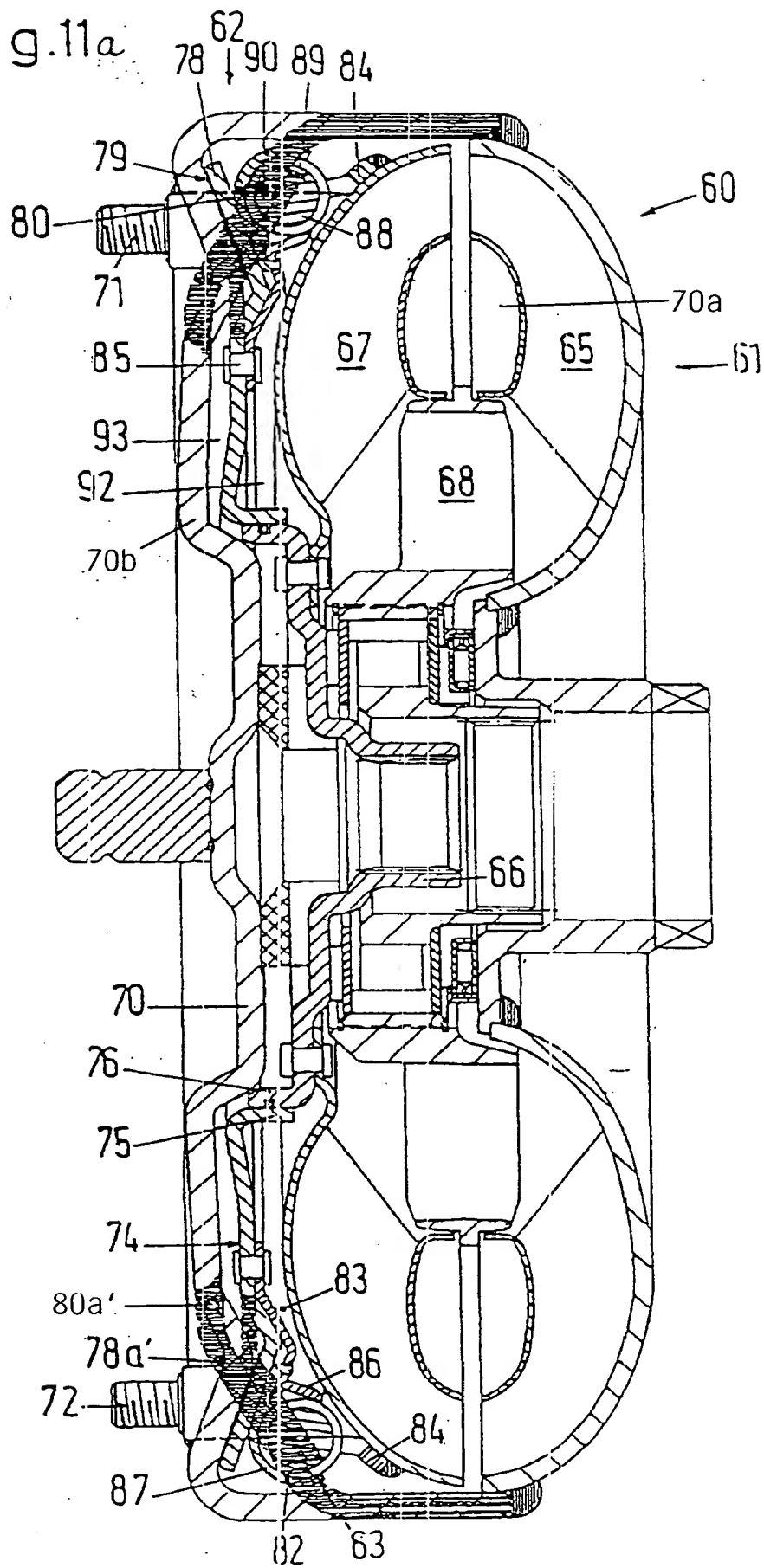


Fig. 11b

PRIOR ART

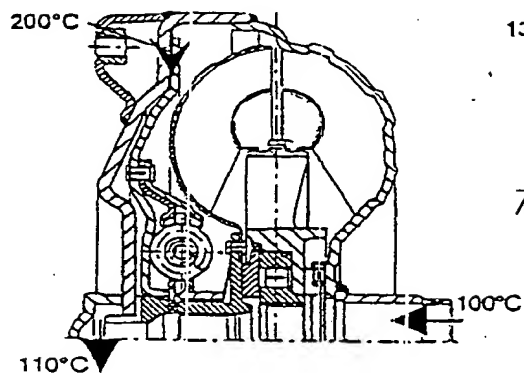


Fig. 11c

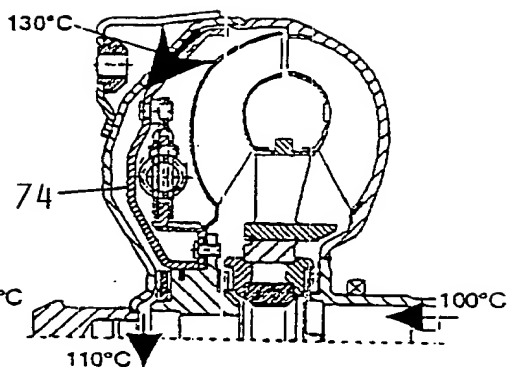


Fig. 11d

PRIOR ART

Maximum pressure
per unit area:
100%

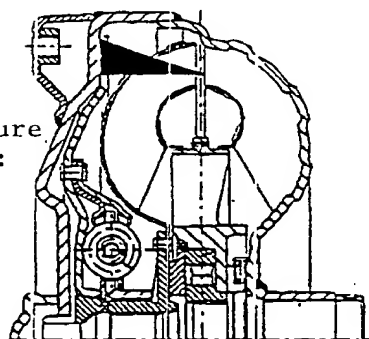


Fig. 11e

Maximum pressure
per unit area:
25%

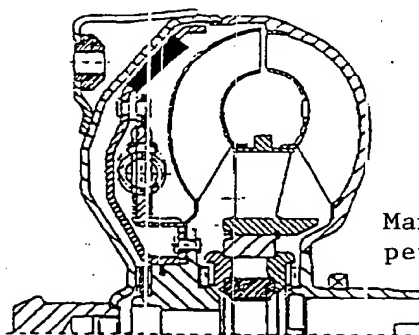


Fig.12

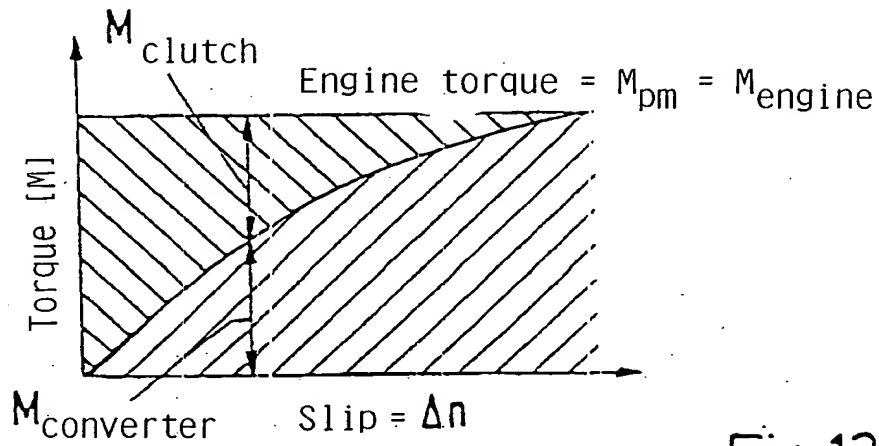


Fig.13

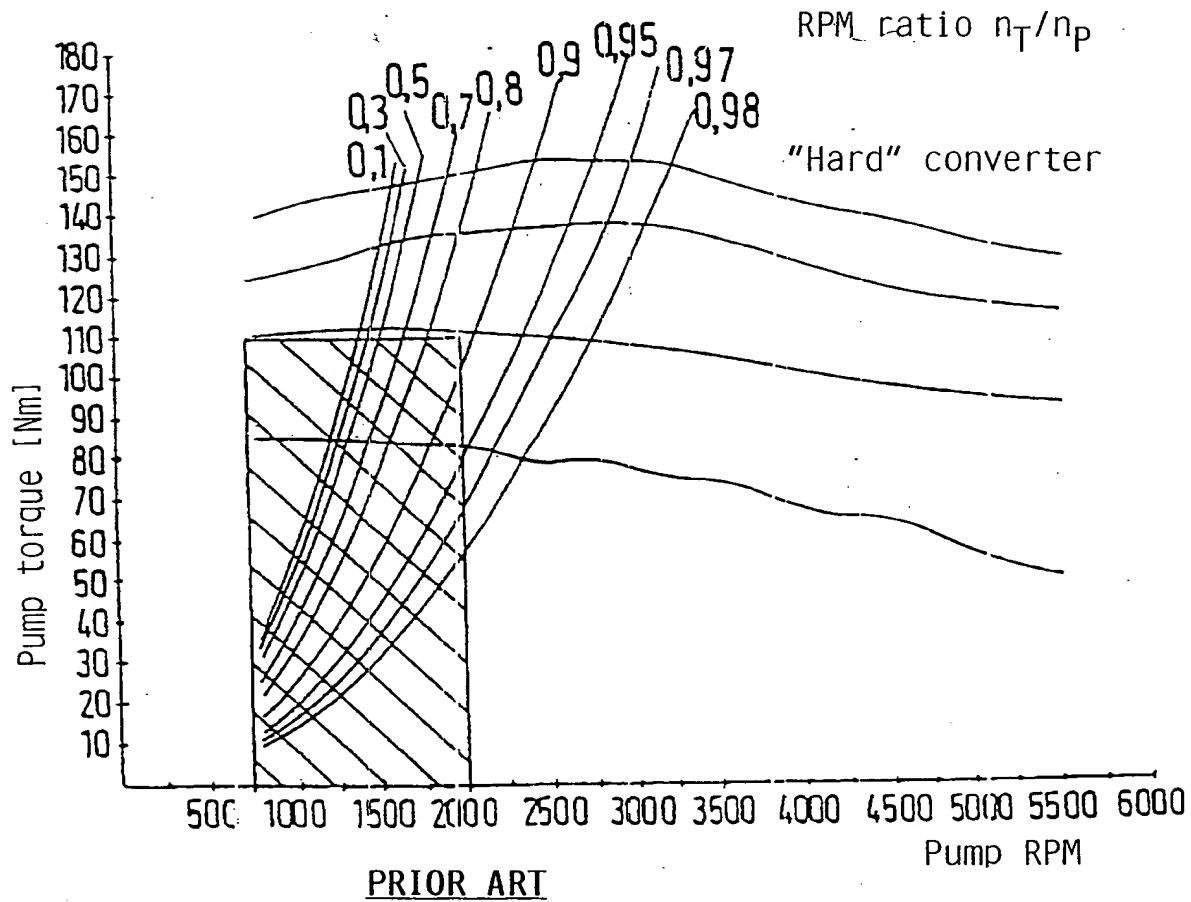


Fig.14

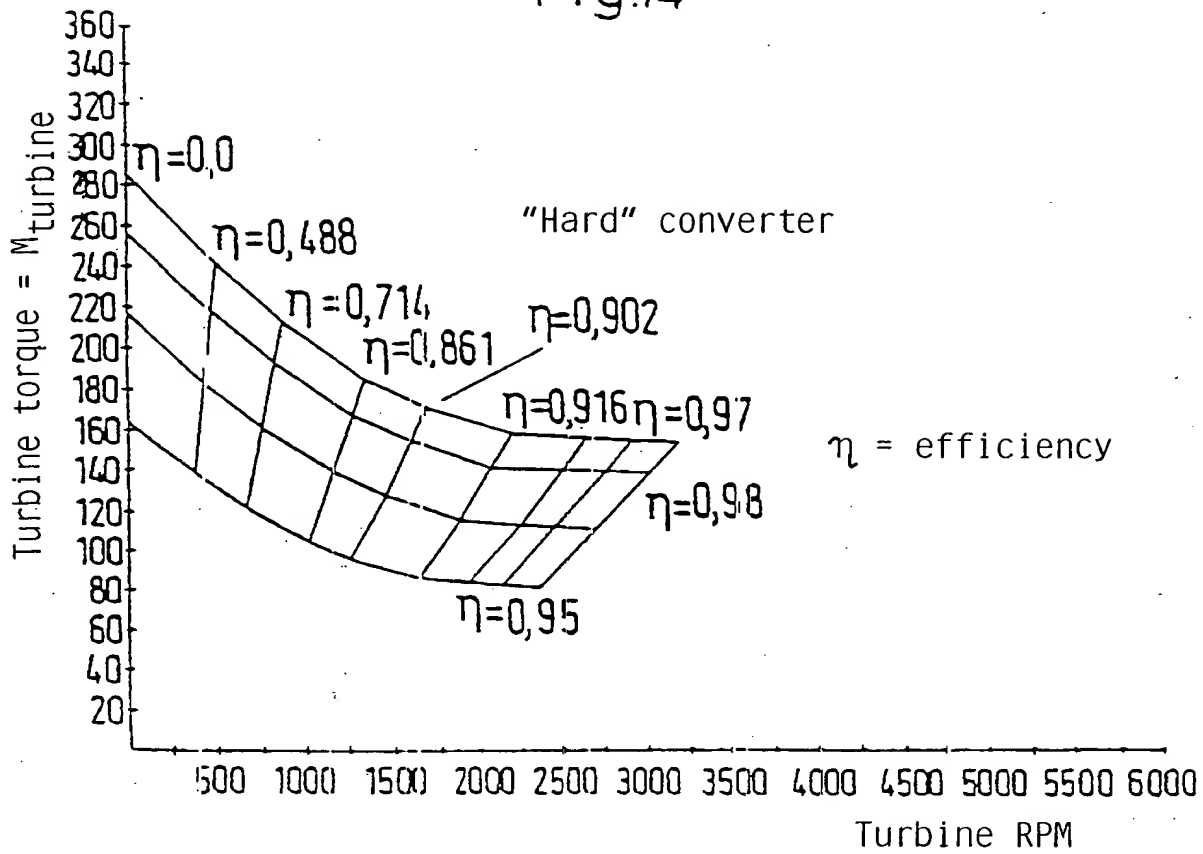


Fig.15

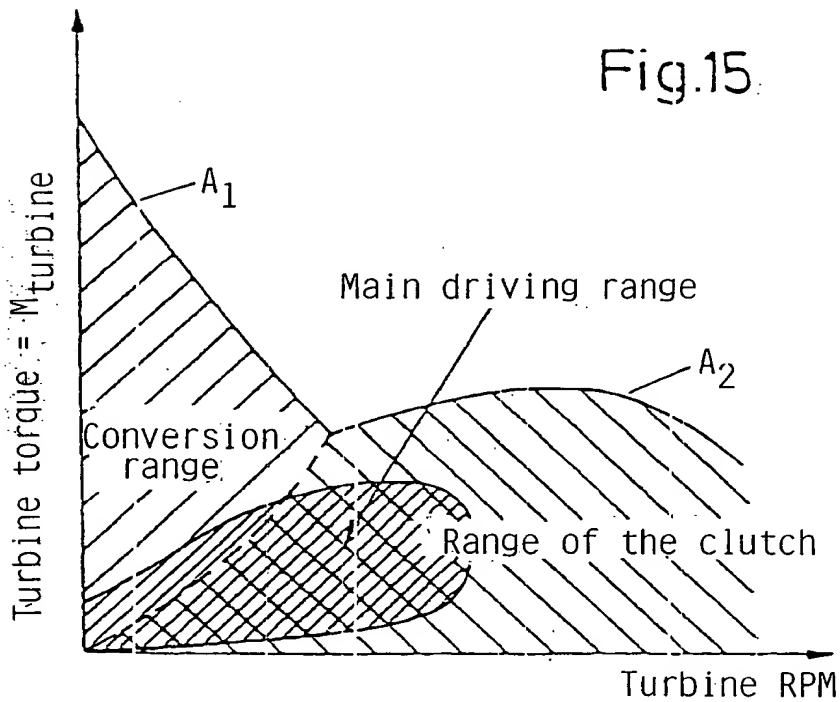


Fig.16

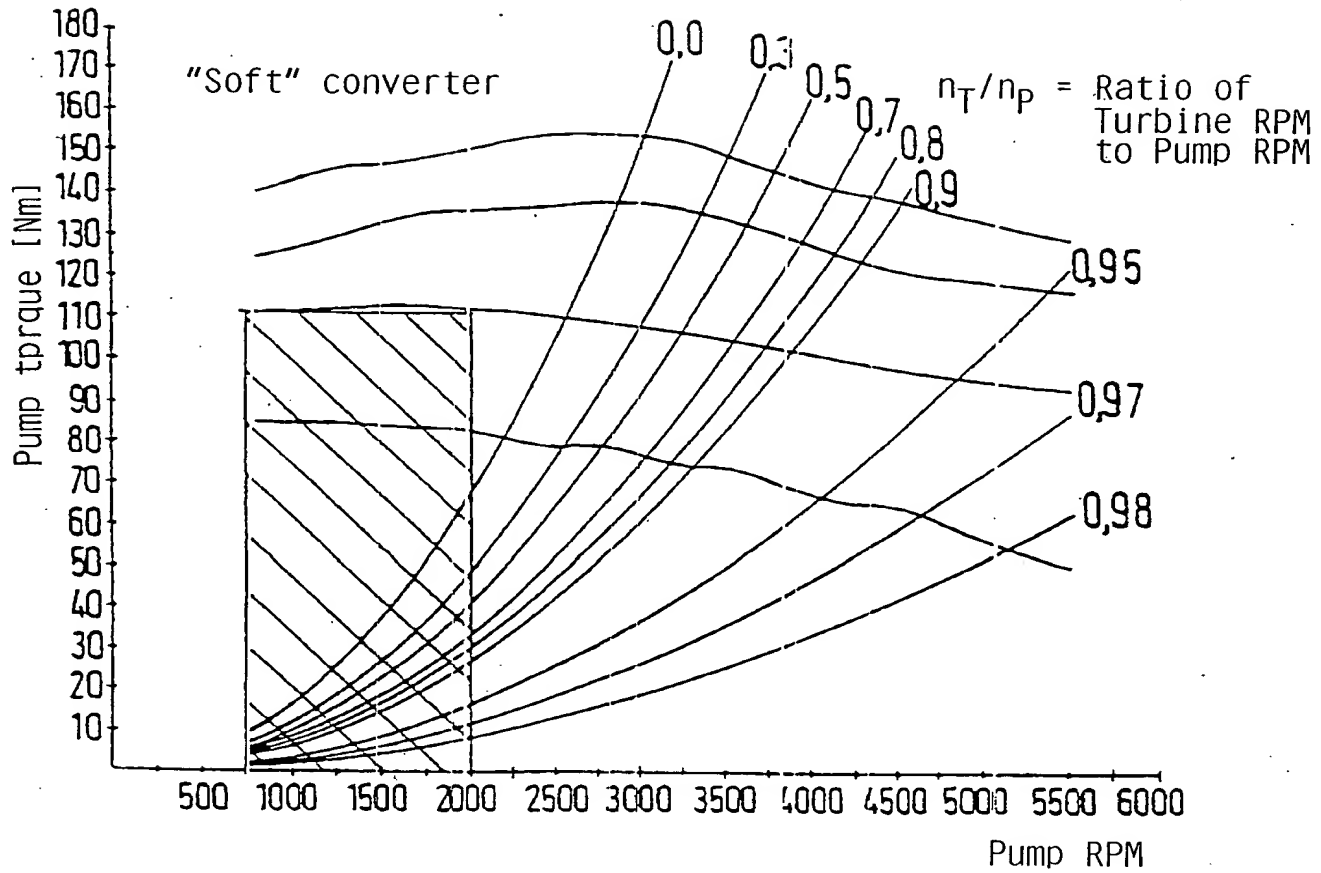


Fig.17

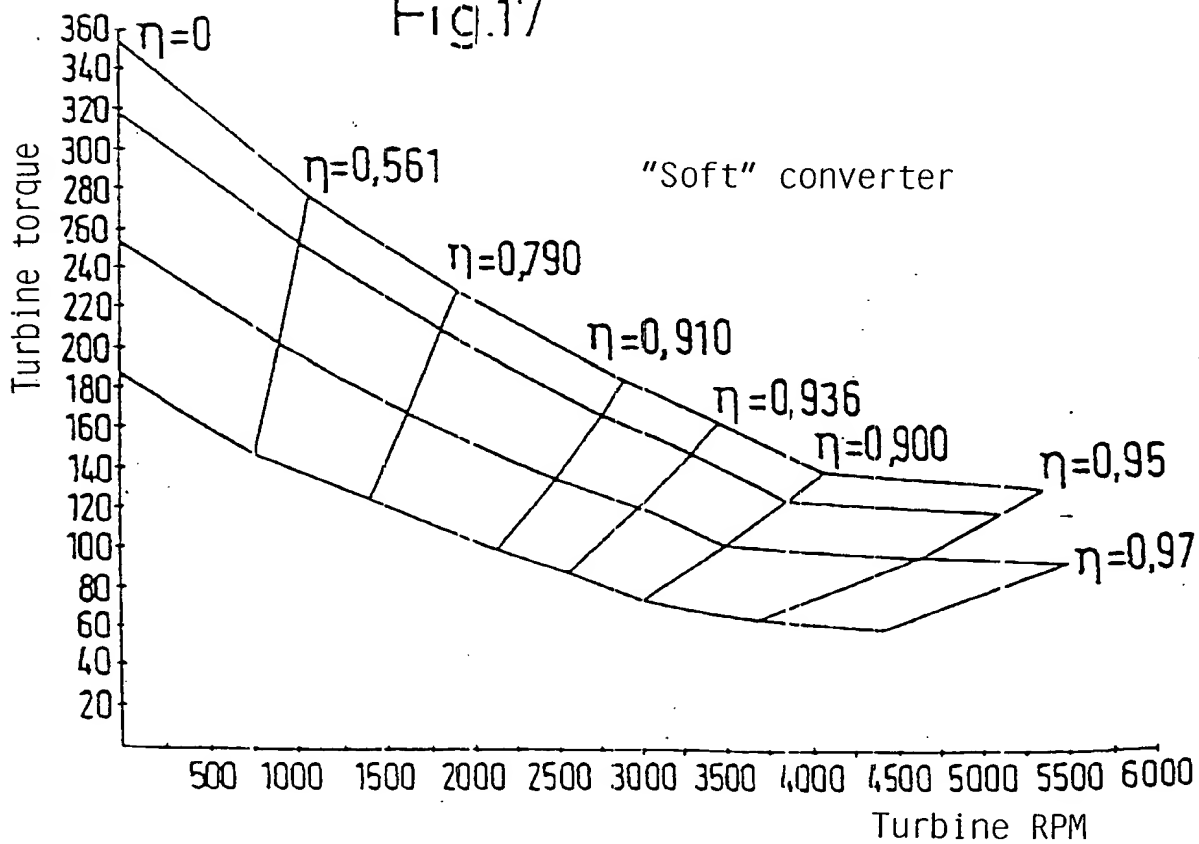


Fig.18

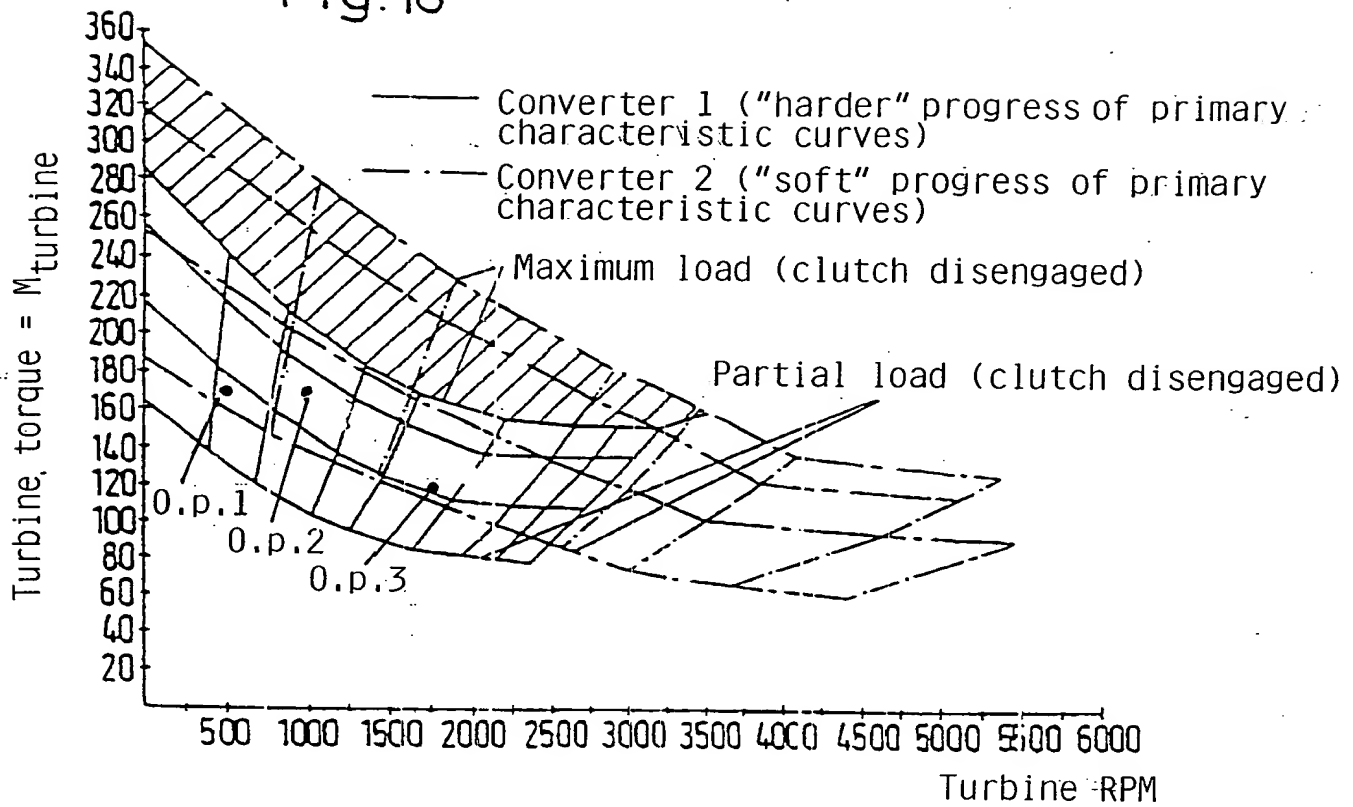
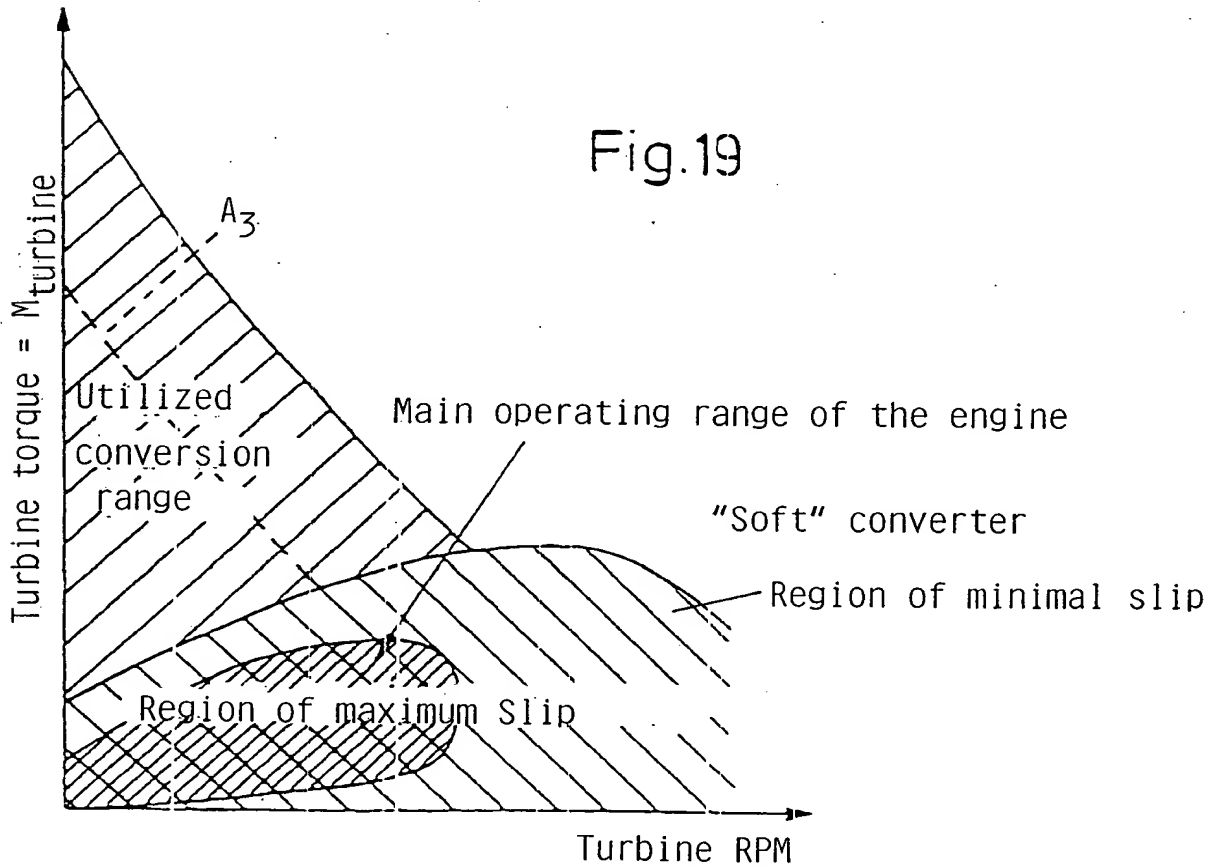


Fig.19



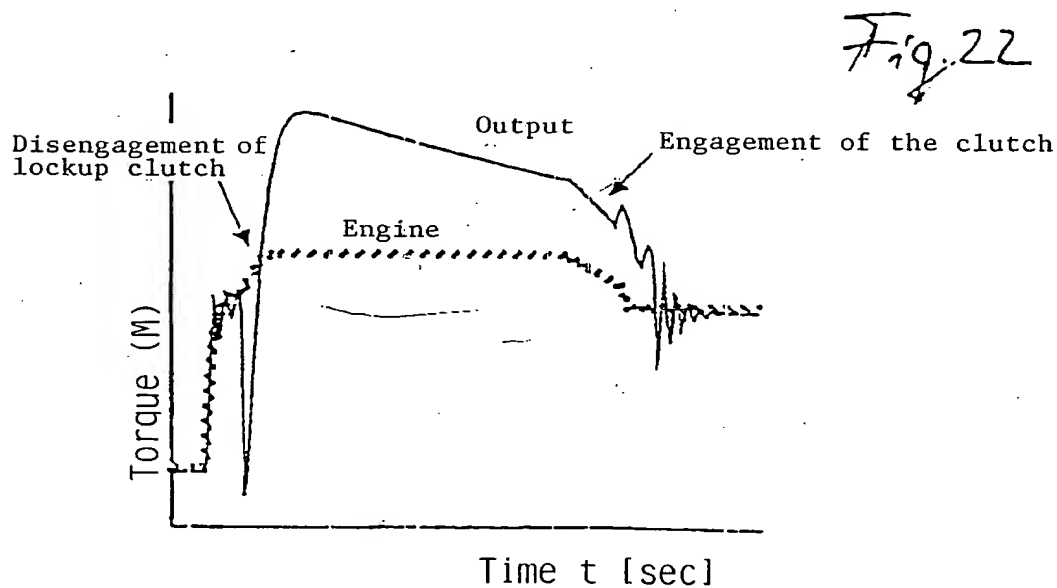
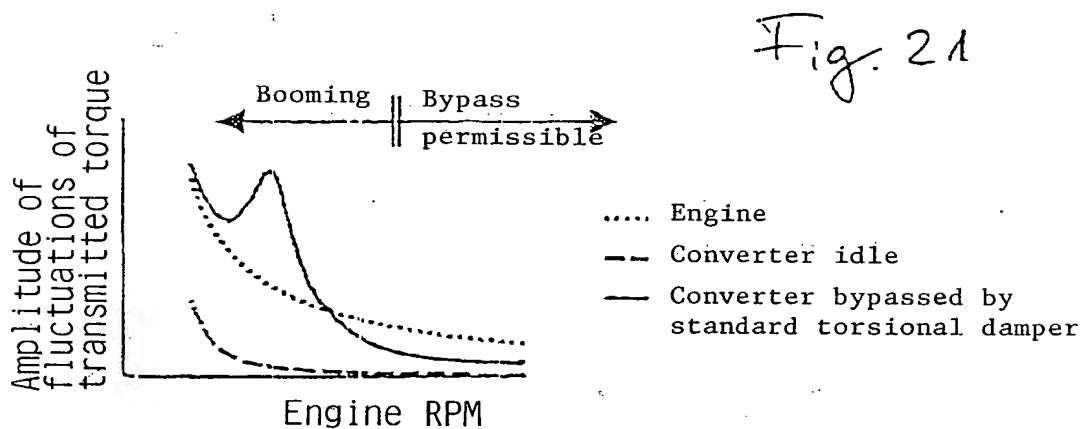
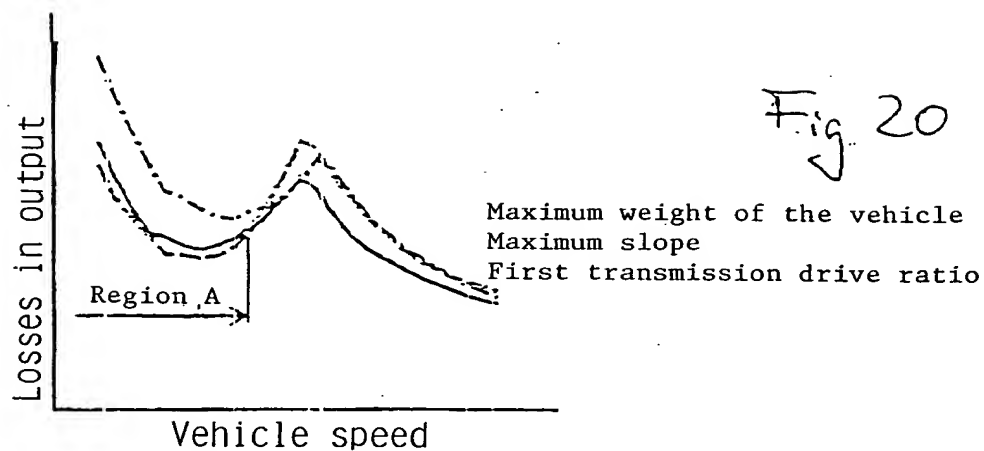


Fig. 23

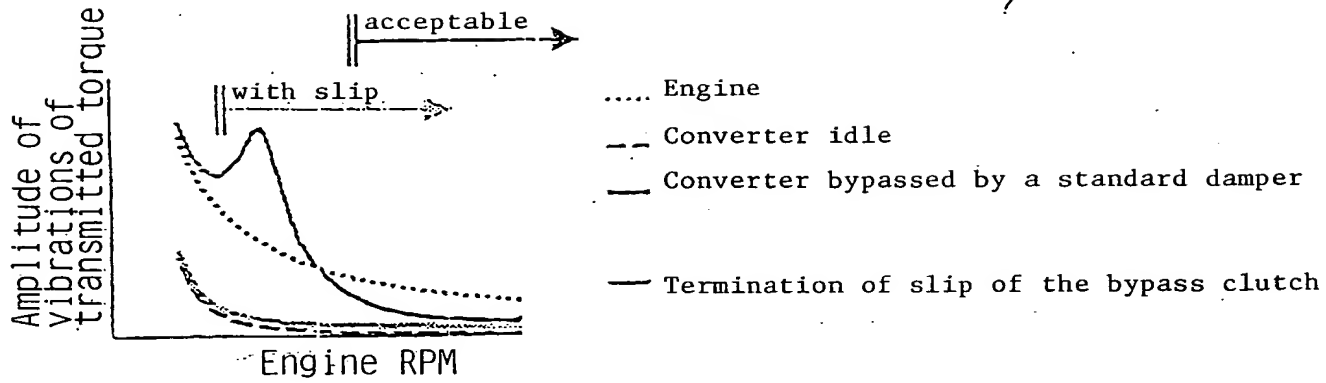


Fig. 24

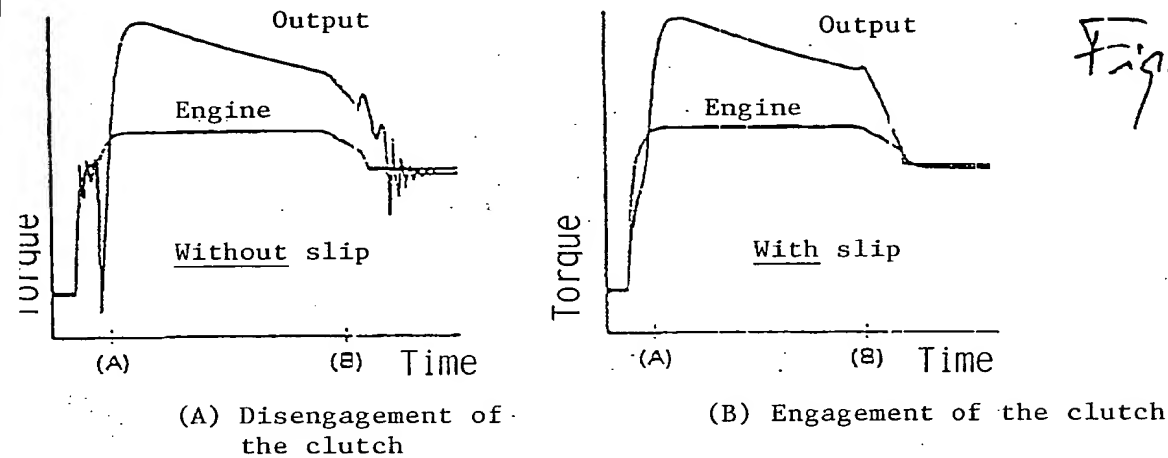


Fig. 25

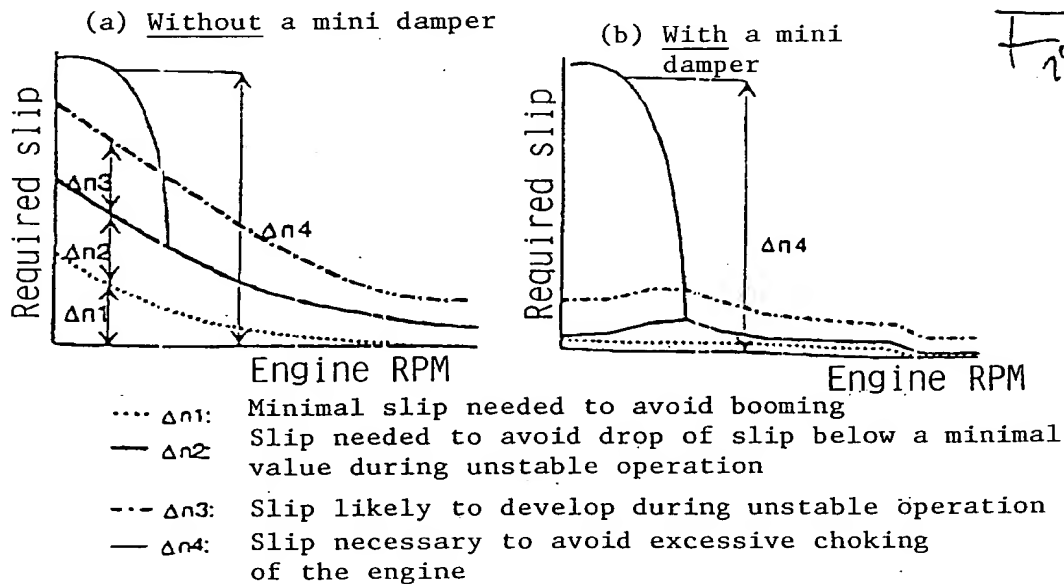
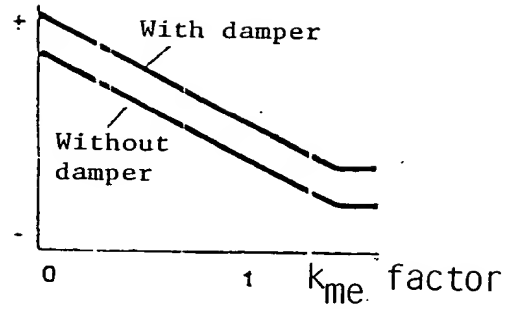


Fig. 26

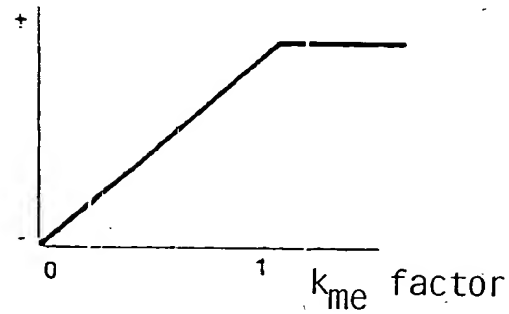


Fig. 27

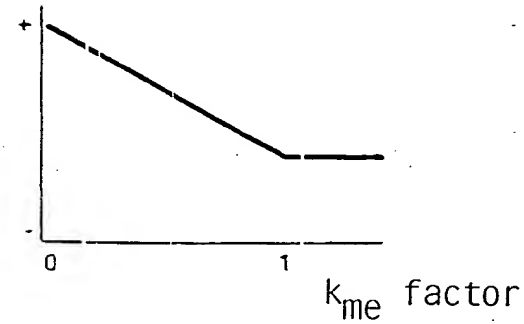
1. Acoustics



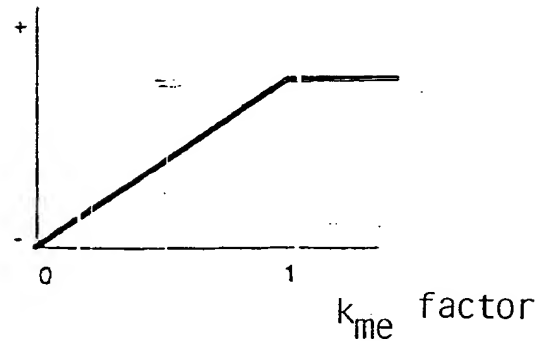
2. Thermal stressing



3. Pulling force



4. Consumption



5. Reaction to changes of load

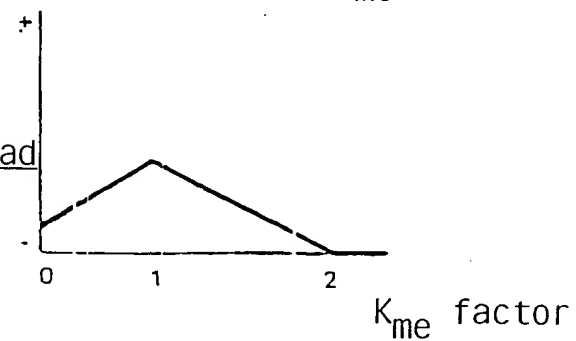


Fig. 28

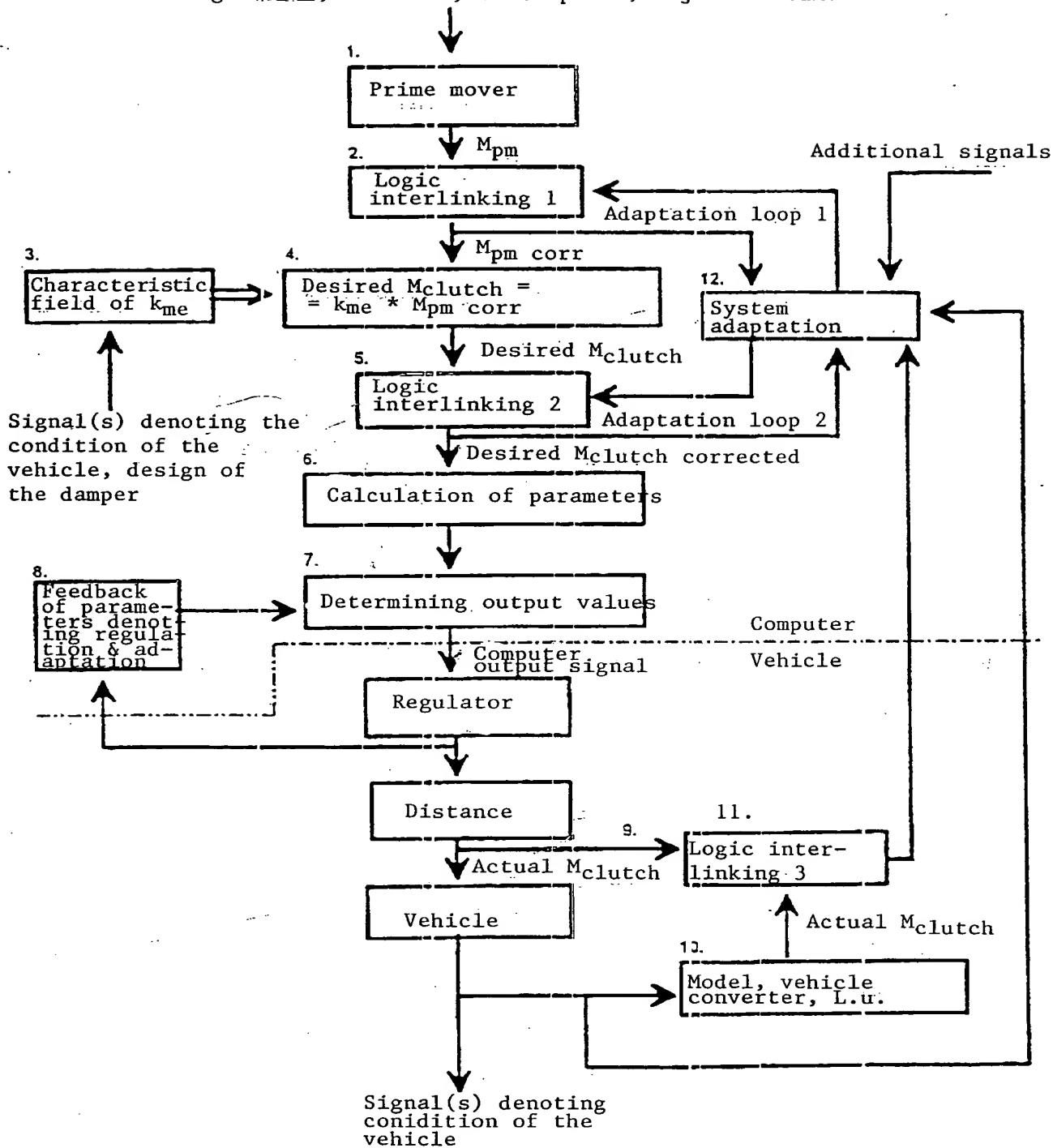
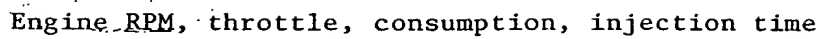
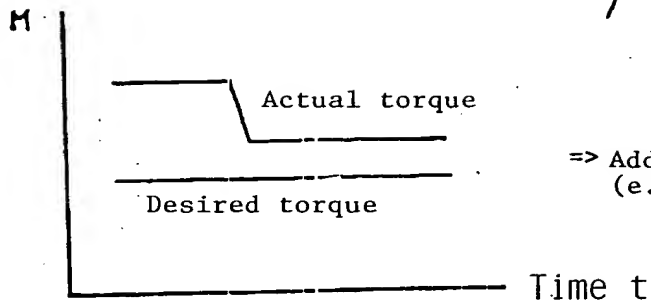


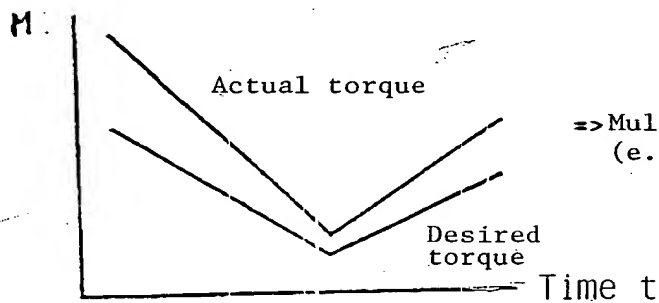
Fig. 29

Example 1:



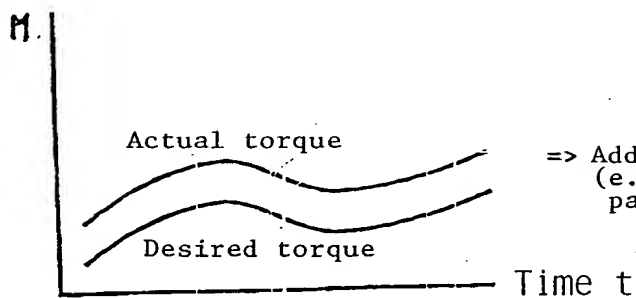
=> Additive share engine
(e.g., auxiliary aggregate(s))

Example 2:



=> Multiplicative share clutch
(e.g., friction coefficient)

Example 3:



=> Additive share clutch
(e.g., deviation of controlling
parameter)

Fig. 30

Engine RPM, throttle, consumption injection time

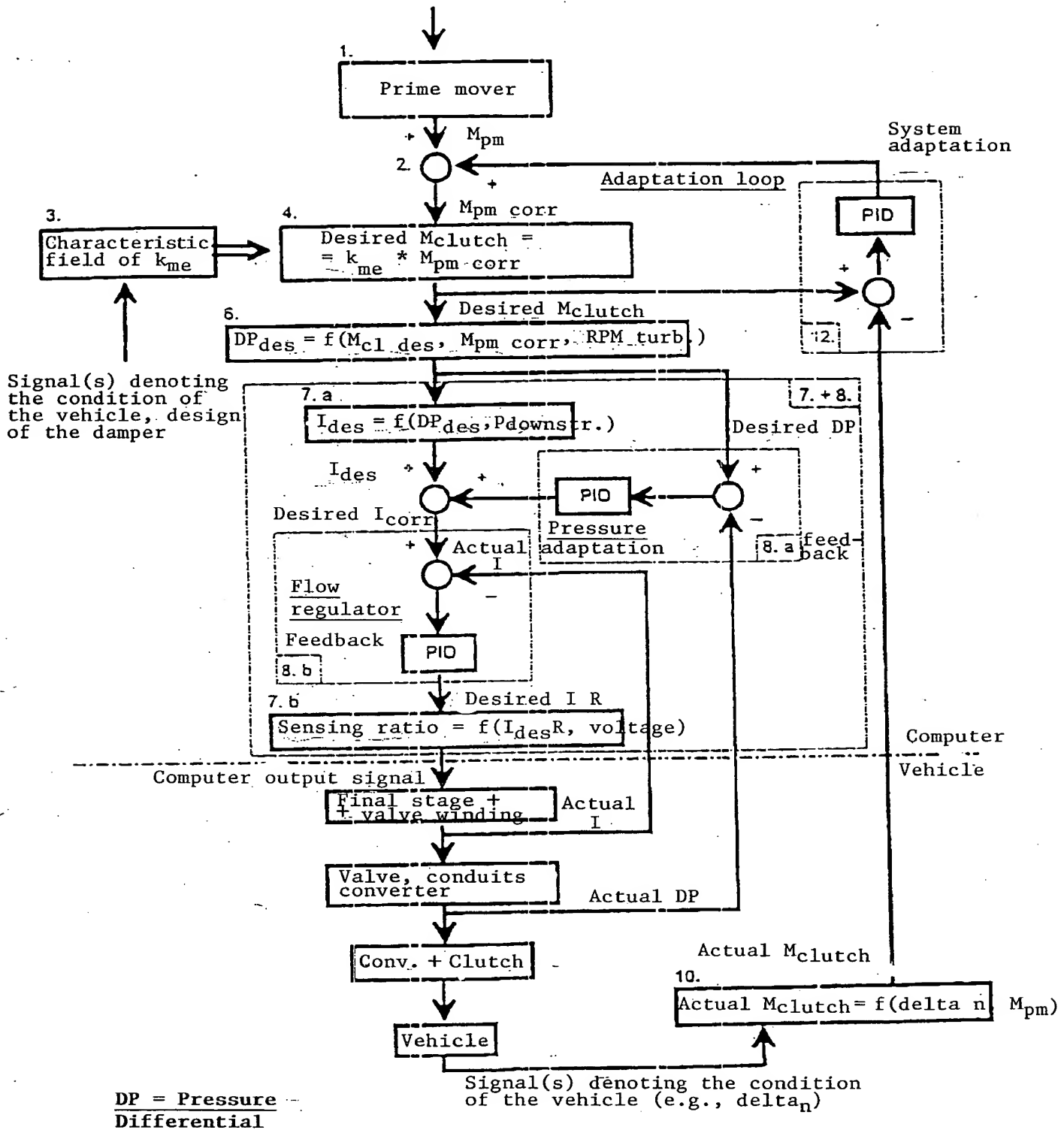


Fig. 34

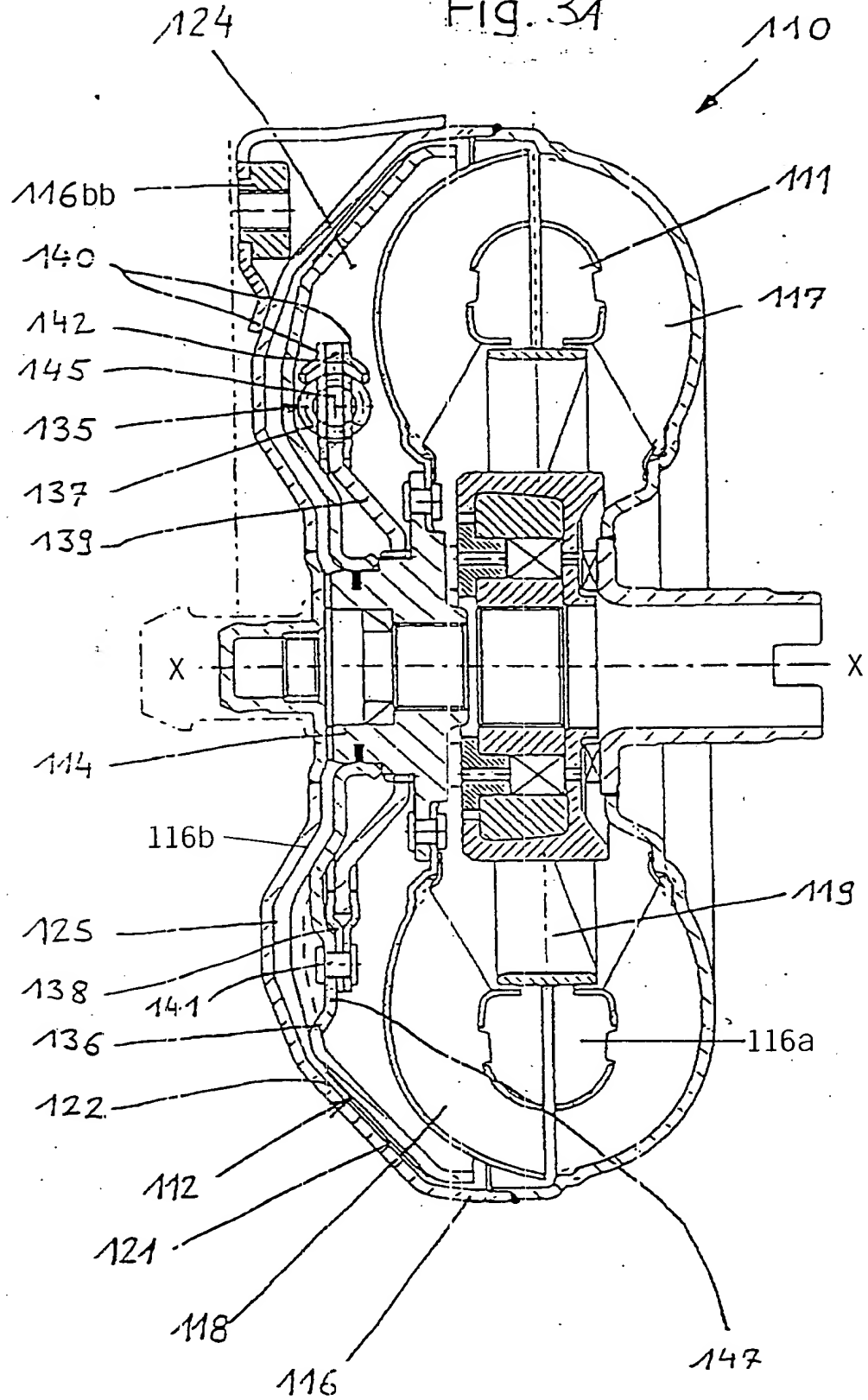


Fig 32

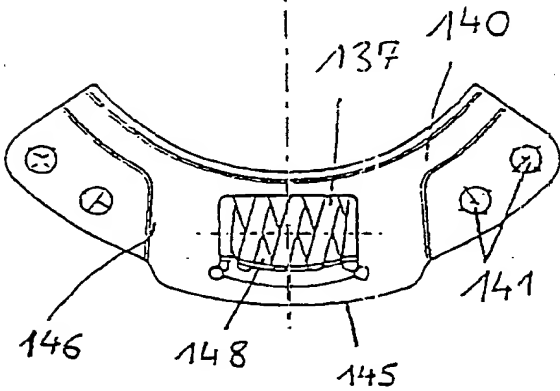
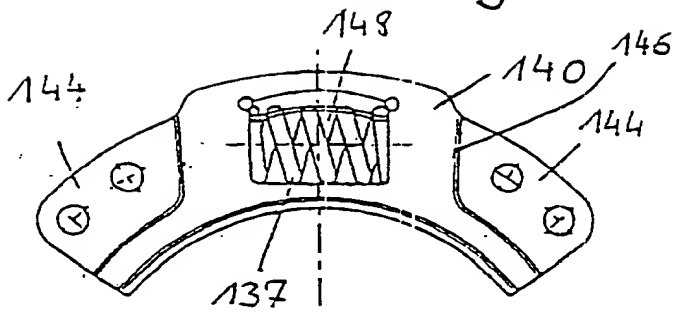


Fig. 33

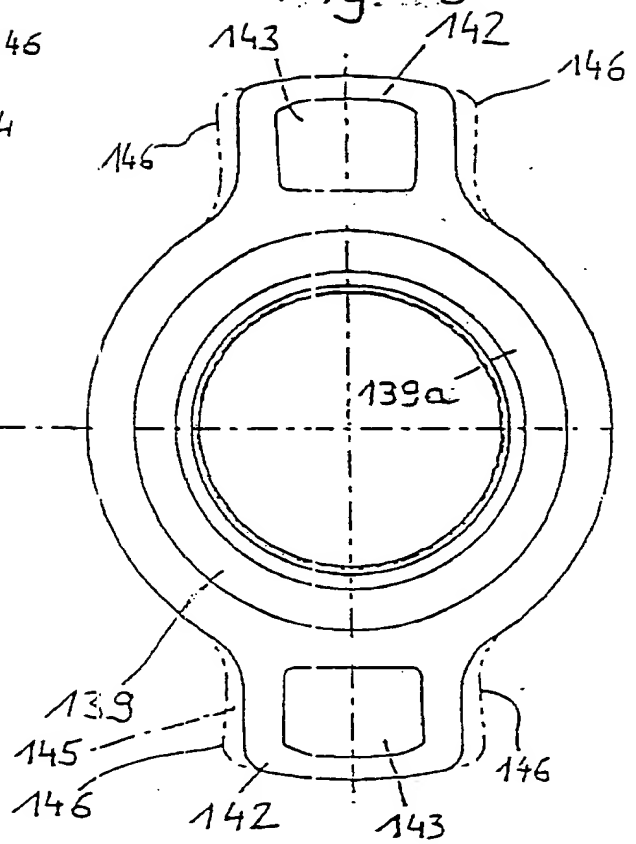


Fig. 35

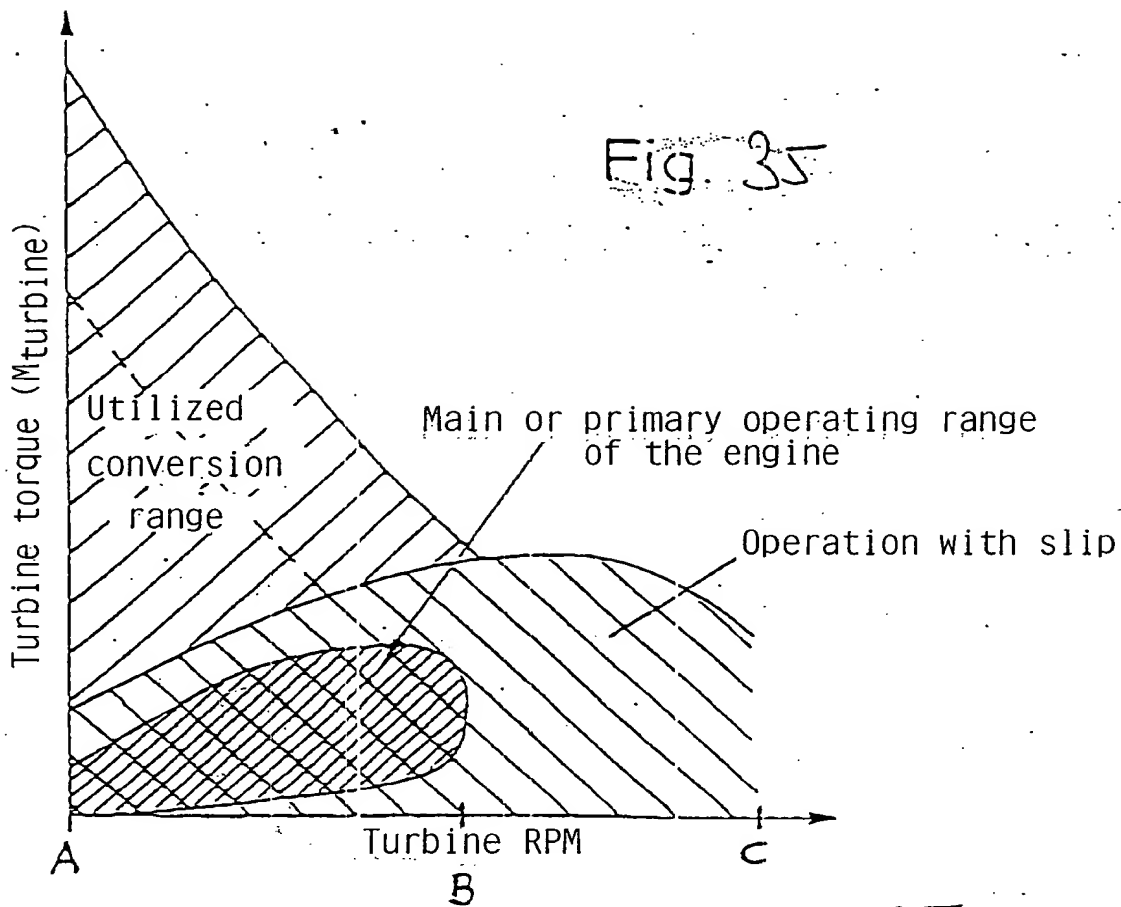
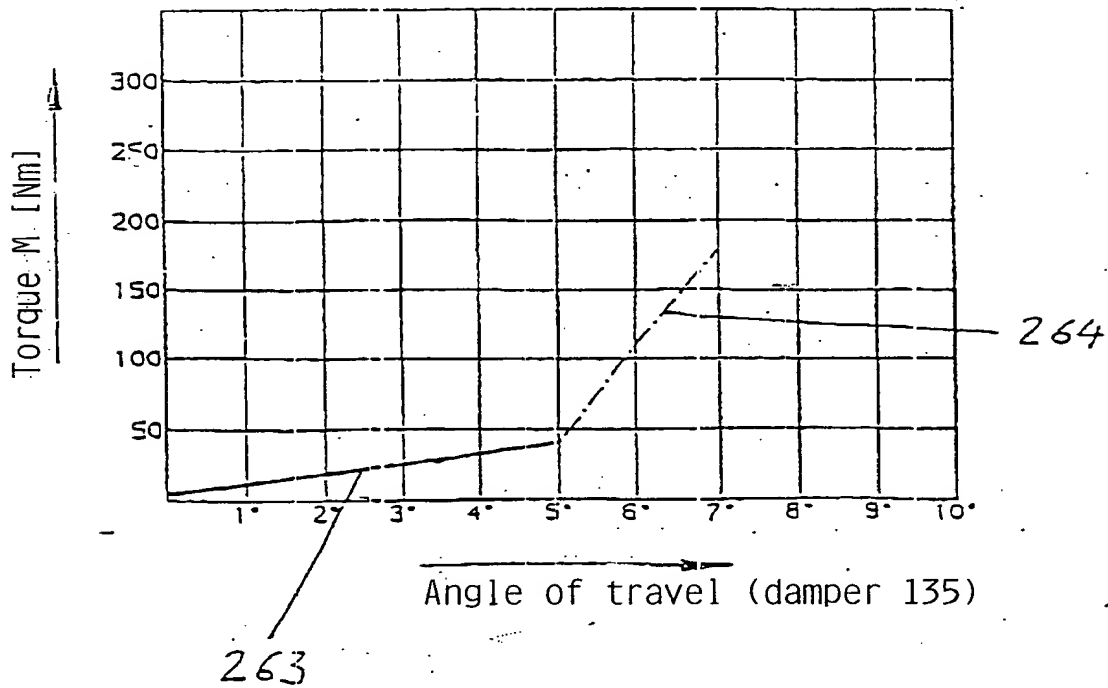


Fig. 34



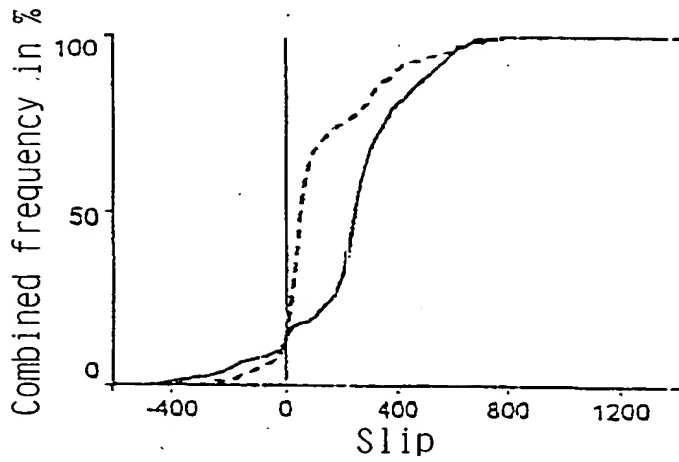


Fig. 36

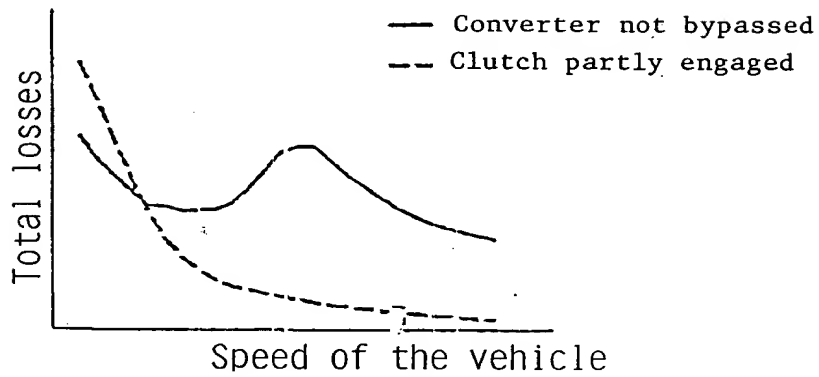


Fig. 37

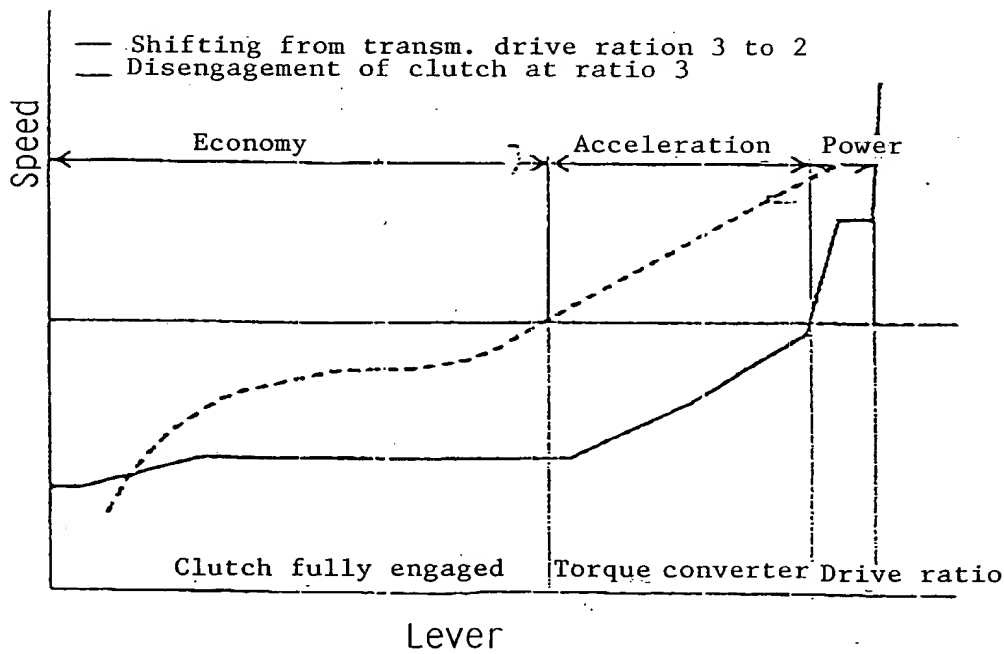


Fig. 38

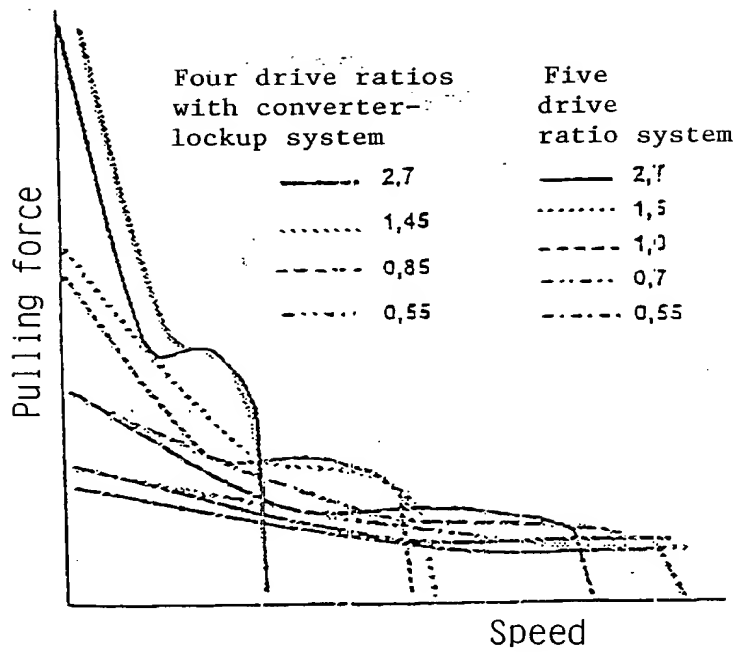


Fig. 39